

**Figure 1: Identification of genes involved in
Alzheimer's Disease pathology**

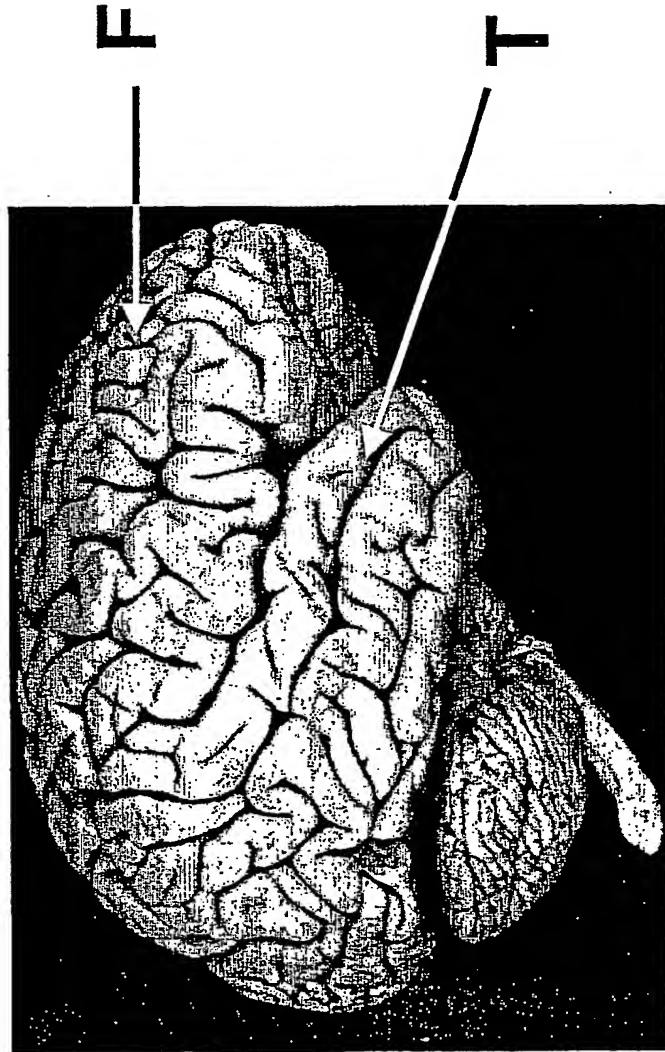


Figure 2: Differential expression of the TB2 gene as determined by RT-PCR analysis

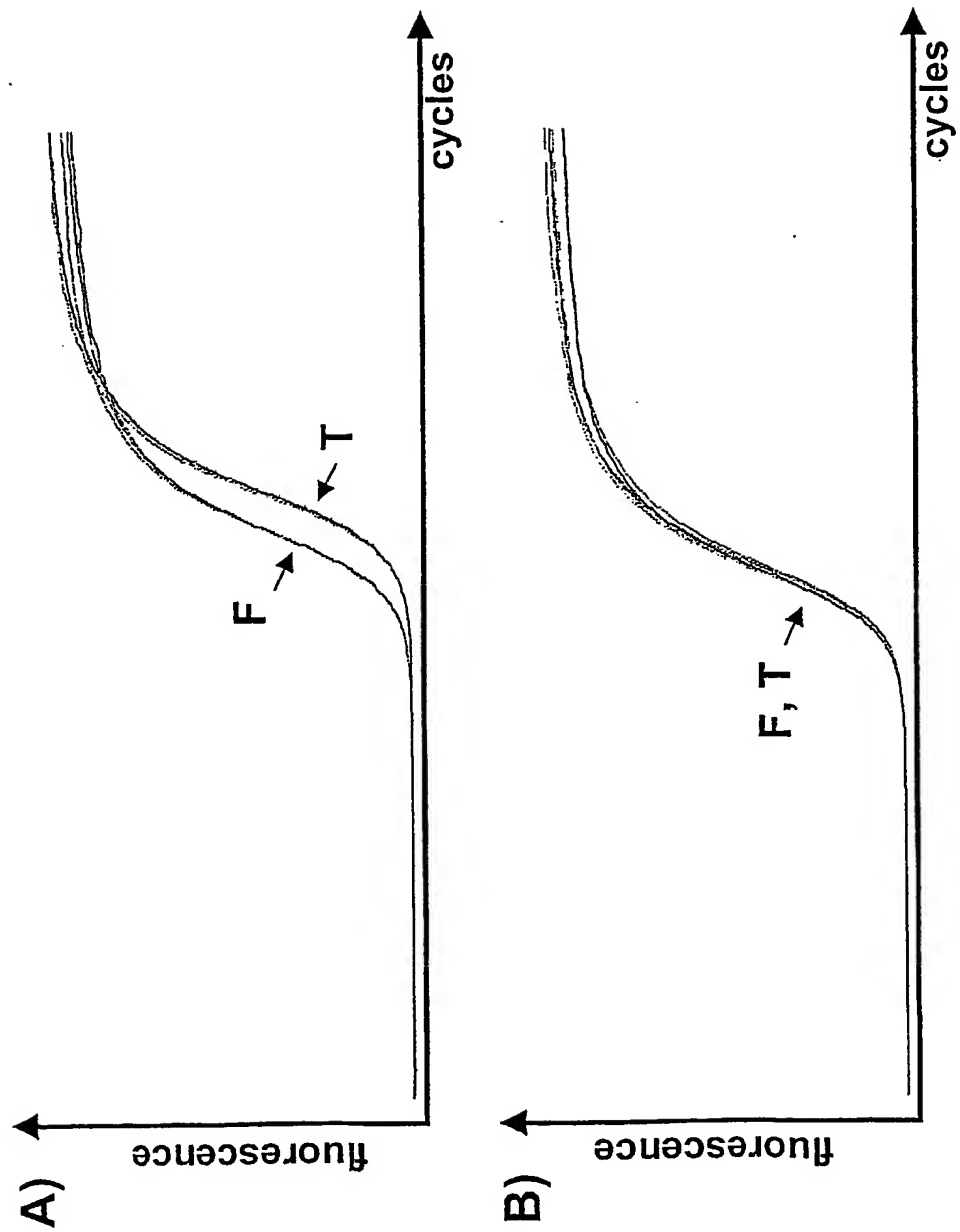
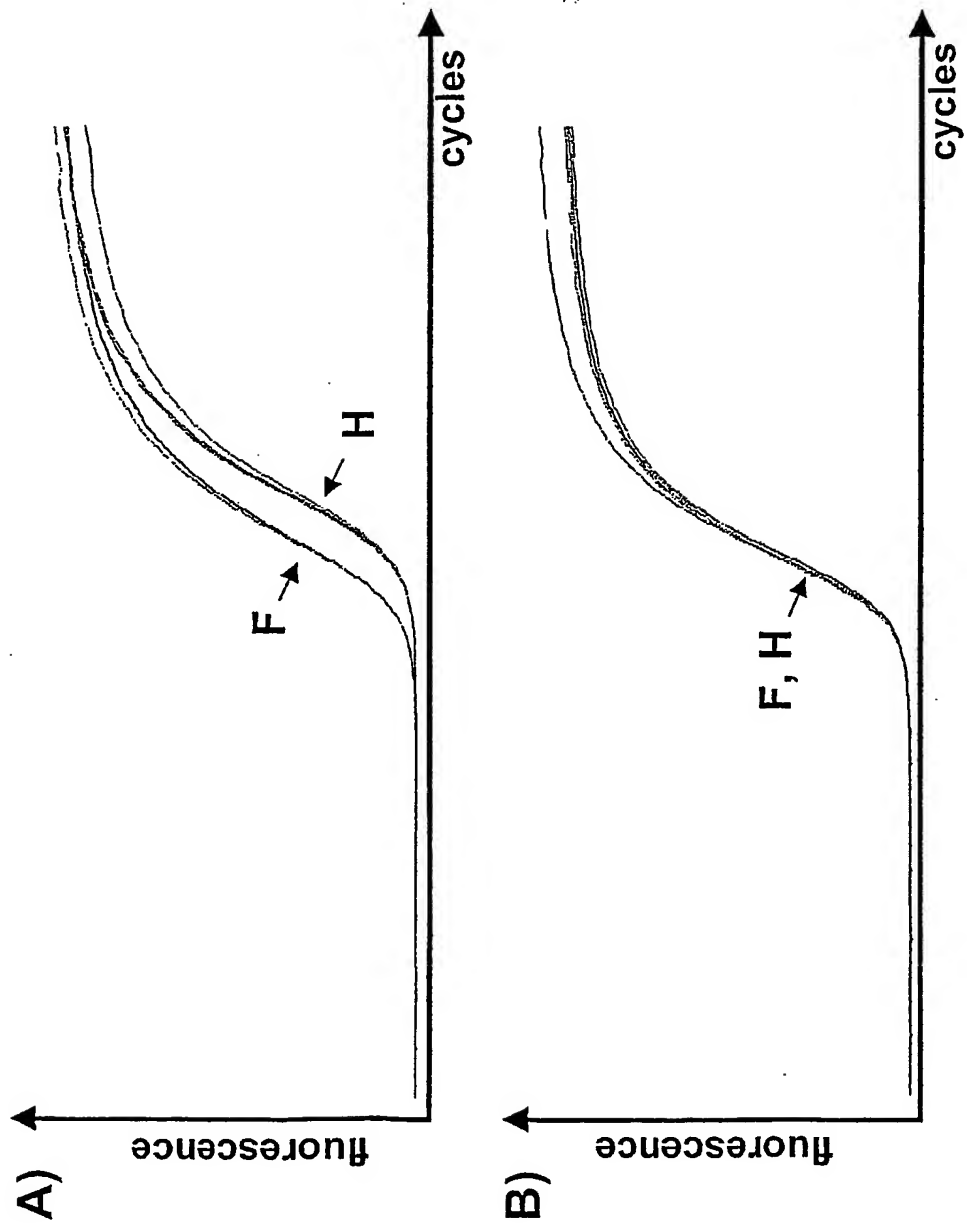


Figure 3: Differential expression of the TB2 gene as determined by RT-PCR analysis



**Figure 4: SEQ ID NO. 1;
amino acid sequence of
human TB2 protein**

Length: 185 aa

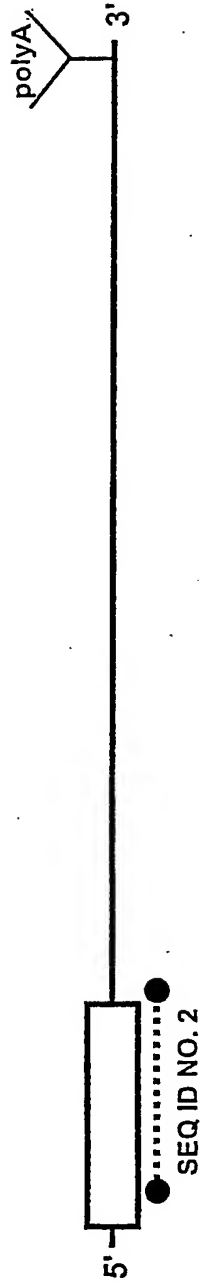
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1  MRERFDRFLH EKNCMTDLLA KLEAKTGVNR SFIALGVIGL VALYLVFGYG
51  ASLLCNLIGF GYPAYISIKA IESPNKEDDT QWLTYWVVYG VFSIAEFFSD
101 IFLSWFPFYY MLKCGFLLWC MAPSPSNGAE LLYKRIIRPF FLKHESQMDS
151 VVKDLKDKSK ETADAITKEA KKATVNLLGE EKKST
```

Figure 5: SEQ ID NO. 2

Length: 461 bp

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1  ACCTGGTGTT CGGTTATGGG GCCTCTCTCC TCTGCAACCT GATAGGATTT
51  GGCTACCCAG CCTACATCTC AATTAAAGCT ATAGAGAGTC CCAACAAAGA
101 AGATGATACC CAGTGGCTGA CCTACTGGGT AGTGTATGGT GTGTTTCAGCA
151 TTGCTGAATT CTTCTCTGAT ATCTTCCTGT CATGGTTCCC CTTCTACTAC
201 ATGCTGAAGT GTGGCTTCCT GTTGTGGTGC ATGGCCCCGA GCCTTCTAAT
251 GGGGCTGAAC TGCTCTACAA GCGCATCATC CGGCCTTTCT TCCTGAAGCA
301 CGAGTCCCAG ATGGACAGTG TGGTCAAGGA CCTTAAAGAC AAGGCCAAAG
351 AGACTGCAGA TGCCATCACT AAAGAAGCGA AGAAAGCTAC CGTGAATTTA
401 CTGGGTGAAG AAAAGAAGAG CACCTAAACC AGACTGGATG GAAACTTCCT
451 GCCCTCTCTG T
```

**Figure 6: Schematic alignment of SEQ ID NO. 2
to human TB2 cDNA
(GenBank accession number BC000232)**



**Figure 7: Sequence alignment of SEQ ID NO. 2
to nucleotides 168-629 of human TB2
cDNA (GenBank accession number
BC000232)**

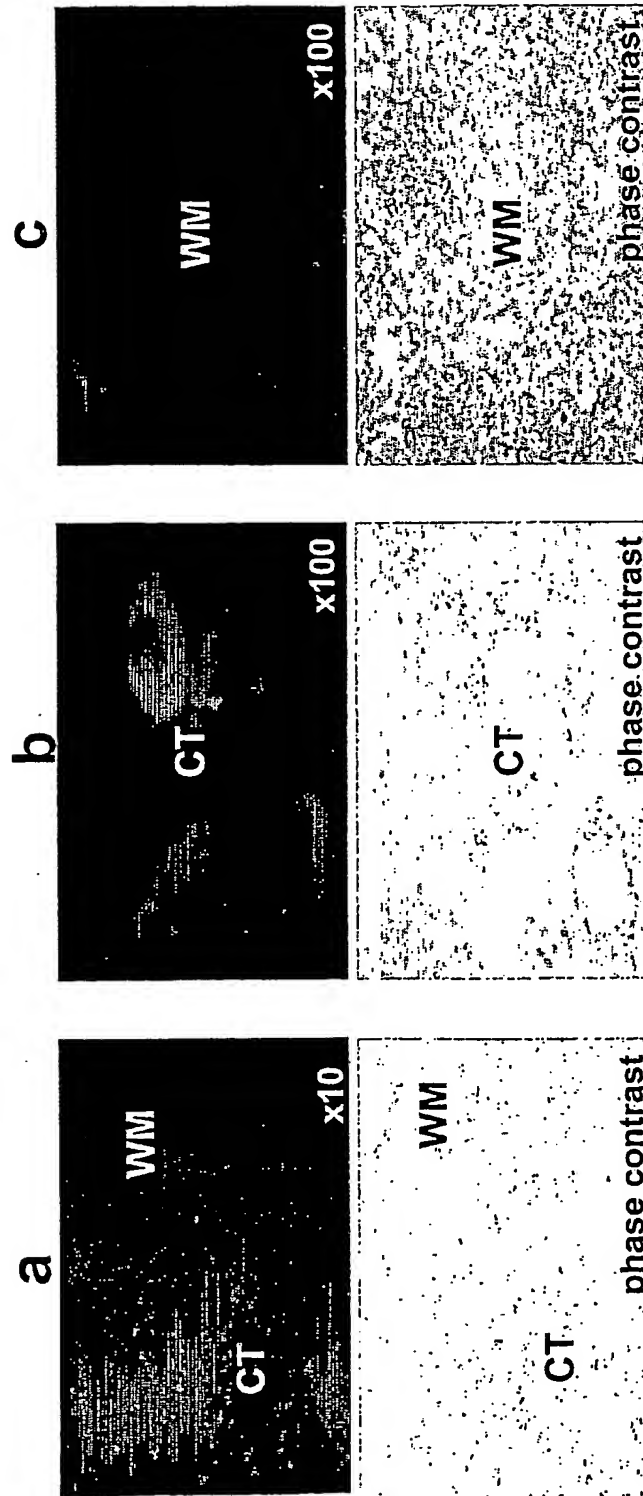
Length: 461 bp

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1  ACCTGGTGTTTCGGTTATGGGGCCTCTCTCCTCTGCAACCTGATAGGATTT 50
   |||||||||||||||||||||||||||||||||||||||||||||||||||
168 ACCTGGTGTTTCGGTTATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTT 217
   .
51  GGCTACCCAGCCTACATCTCAATTAAAGCTATAGAGAGTCCCAACAAAGA 100
   |||||||||||||||||||||||||||||||||||||||||||||||||||
218 GGCTACCCAGCCTACATCTCAATTAAAGCTATAGAGAGTCCCAACAAAGA 267
   .
101 AGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTTCAGCA 150
   |||||||||||||||||||||||||||||||||||||||||||||||||||
268 AGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTTCAGCA 317
   .
151 TTGCTGAATTCTTCTCTGATATCTTCCTGTCATGGTTCCCCTTCTACTAC 200
   |||||||||||||||||||||||||||||||||||||||||||||||||||
318 TTGCTGAATTCTTCTCTGATATCTTCCTGTCATGGTTCCCCTTCTACTAC 367
   .
201 ATGCTGAAAGTGTGGCTTCCTGTTGTGGTGCATGGCCCCGAG.CCTTCTAA 249
   |||||||||||||||||||||||||||||||||||||||||||||||||||
368 ATGCTGAAAGTGTGGCTTCCTGTTGTGGTGCATGGCCCCGAGCCCTTCTAA 417
   .
250 TGGGGCTGAACTGCTCTACAAGCGCATCATCCGGCCTTTCTTCCTGAAGC 299
   |||||||||||||||||||||||||||||||||||||||||||||||||||
418 TGGGGCTGAACTGCTCTACAAGCGCATCATCCGTCCTTTCTTCCTGAAGC 467
   .
300 ACGAGTCCCAGATGGACAGTGTGGTCAAGGACCTTAAAGACAAGGCCAAA 349
   |||||||||||||||||||||||||||||||||||||||||||||||||||
468 ACGAGTCCCAGATGGACAGTGTGGTCAAGGACCTTAAAGACAAGGCCAAA 517
   .
350 GAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGCTACCGTGAATTT 399
   |||||||||||||||||||||||||||||||||||||||||||||||||||
518 GAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGCTACCGTGAATTT 567
   .
400 ACTGGGTGAAGAAAAGAAGAGCACCTAAACCAGACTGGATGGAAACTTCC 449
   |||||||||||||||||||||||||||||||||||||||||||||||||||
568 ACTGGGTGAAGAAAAGAAGAGCACCTAAACCAGACTGGATGGAAACTTCC 617
   .
450 TGCCCTCTCTGT 461
   |||||||||||
618 TGCCCTCTCTGT 629

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Fig. 8: Images of human cerebral sections labeled with anti-TB2 antiserum
and with DAPI



**Table 1: Identification of differentially expressed genes
in microarray hybridization experiments**

Biochip	Type of probe	Used probes (Cy5-/Cy3-labeled)	Ratio fluorescence intensity:
1	C	PT _{SSH(2)} / PF _{SSH(1)}	0.73
2	B	PT / PF	0.73
4	C	PT _{SSH(4)} / CT _{SSH(3)}	0.32
7	B	CF / PF	0.27

Table 2 :

sample Δ (fold)
(frontal / temporal cortex)

control C011	1.26
control C012	1.09
control C014	1.00
control C005	0.99
control C008	0.98
patient P012	1.99
patient P016	1.60
patient P010	0.59
patient P011	1.38
patient P014	0.95
patient P017	1.57
patient P019	1.78

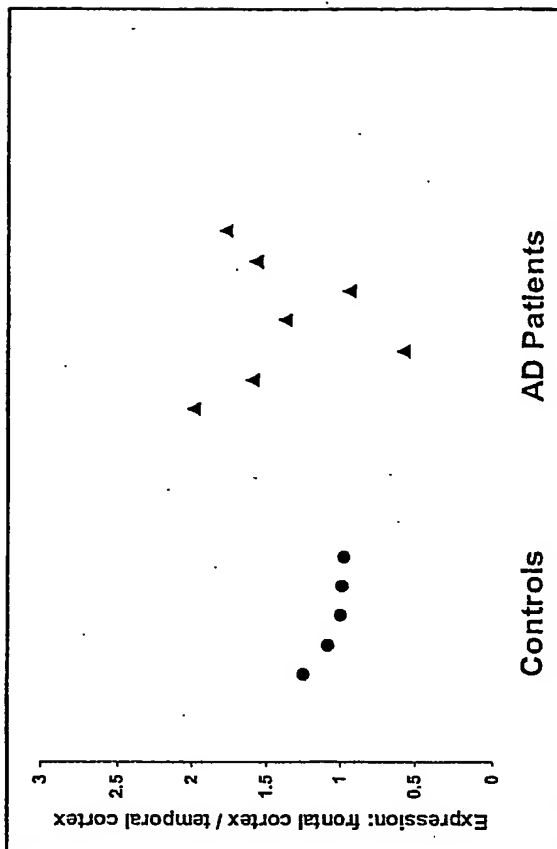


Table 3 :

sample	Δ (fold) (frontal cortex / hippocampus)
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control C005	0.81
control C008	0.85
control C004	1.74
patient P012	1.98
patient P016	1.61
patient P010	0.89
patient P011	1.18
patient P014	0.79
patient P019	1.63

